

Figure 22 is a flow chart illustrating a method of selecting a non-maximum dwell duration, according to one embodiment of the invention;

Figure 23 is a flow chart illustrating a method of ^{continuation of the} Figure 22.

Figures 24A-24F are examples Solution and Data matrices, according to one
5 embodiment of the invention;

Figure 25 is a diagram illustrating dwell coverage of emitters after rounding down dwell minimum frequencies, according to one embodiment of the invention;

Figure 26 is a diagram illustrating dwell coverage of emitters after rounding down dwell minimum frequencies, according to one embodiment of the invention;

10 Figure 27 is a flow chart illustrating a method of compensating for tuning step coverage gaps, according to one embodiment of the invention;

Figure 28 is a flow chart illustrating a method for verifying and allocating receiver system resources, according to one embodiment of the invention;

15 Figure 29 is a flow chart illustrating a method for verifying and allocating receiver system resources, according to one embodiment of the invention;

Figure 30 is a diagram showing an emitter's frequency range broken up into discrete pieces, according to one embodiment of the invention;

Figure 31 is a diagram showing simulated detection of an emitter's scan pattern according to one embodiment of the invention; and

20 Figure 32 is a diagram showing illumination periods of an emitter's scan pattern, minus integration time, according to one embodiment of the invention.

DETAILED DESCRIPTION

According to one aspect of the present invention, an improved method is provided
25 for detecting signals generated by one or more emitters. Figure 1 shows an embodiment in which various aspects of the invention may be employed. In particular, a method for determining a scan strategy may be employed in conjunction with a detection system 101 that detects one or more signals 105A, 105B transmitted by one or more emitters 104A, 104B. As discussed above, these emitters 104A, 104B may be transmitted by one or more
30 threats 106A, 106B, respectively.

Detection system 101 may include one or more sensors 102 and one or more processing systems 103 that receive and process signals 105A, 105B received by sensor